HITACHI
Inspire the Next

Hitachi Unified Compute Platform HC family of hybrid and all-flash solutions deliver compute, storage, virtualization and data protection in an agile, scalable and resilient hyperconverged infrastructure.

DATASHEET

Next-Generation Hyperconverged Infrastructure for IT Modernization

As IT managers are challenged with growing demands for faster delivery of business services, they face mounting complications and rising costs as they struggle to manage disparate technology resources. Hitachi Unified Compute Platform HC (UCP HC) family of hybrid and all-flash models combine compute, storage and virtualization into a hyperconverged infrastructure appliance to answer these challenges. UCP HC appliances create simple, easy-to-deploy, all-in-one solutions, powered by software-defined storage, VMware vSAN and HDS software, to extend the agility and simplicity of the UCP family.

UCP HC family provides a comprehensive dashboard to view virtual machines (VMs). Compute and storage are viewable, with health monitors for CPU, memory, storage and VM usage for the entire clusters, individual appliances and individual nodes. Minimal IT experience is required to deploy, configure and manage the UCP HC appliances. As a UCP HC leverages VMware's core products, administrators can apply existing VMware knowledge, best practices and processes.

Pay as You Grow

The UCP HC family simplifies the scale-out process and provides elasticity to closely align the IT infrastructure with dynamic business demands (see Table 1). Start with what you need and scale to keep pace with business growth, without committing massive capital upfront.

Simplicity Redefined

Deploying and managing UCP HC appliances requires minimal skills and effort, freeing resources for higher business value activities. Single-pane-of-glass management for entire physical and virtual infrastructure enables VM administrators to meet business requirements without requiring specialized manpower. The management software, VMware vCenter, easily discovers new UCP HC appliances and then distributes the configuration to add new appliances with a few mouse clicks. UCP HC appliances rebalance resources and workloads across the cluster, creating a single resource pool. Advanced policy-based management, introduced with Virtual SAN, automates and simplifies storage consumption and management.

Hitachi Unified Compute Platform Advisor provides smart life-cycle management for your compute and network infrastructure, enabling firmware upgrades, centralized remote hardware monitoring, and power management. Use its flexible graphical user interface (GUI) to manage, scale and monitor resources. Plus, centralize management of power, firmware, processors, chassis status, bios settings, Ethernet ports, virtual LAN (VLAN) synchronization management, and more.

Reduce IT Costs

The UCP HC family delivers high VM density to support a mix of applications, eliminating the need for storage sprawl. Next-generation data reduction technologies (deduplication, compression, erasure coding) reduce storage need by up to seven times to boost return on investment (ROI) by leveraging all-flash hyperconverged infrastructure. An advanced policy-based management engine ensures provisioning of the right storage services on the fly with accurate quality of service (QoS) per VM. UCP HC appliances save operational overhead with a smaller data center footprint, resulting in lower power and cooling expenses.

Eliminate Risk

Building on the Hitachi legacy, UCP HC family delivers a reliable foundation to run your important applications with aggressive recovery point and time objective (RPO and RTO) requirements. UCP HC scale-out cluster is designed to tolerate failure, without impacting performance or data accessibility. It provides native and optimized data protection and disaster recovery solutions, to deliver resilient infrastructure for applications with near-zero downtime tolerance. Business applications can be protected in remote data

NEXT-GENERATION HYPERCONVERGED SOLUTIONS

Ensure powerful performance and availability for traditional and cloud-native application deployment. UCP HC solutions deliver a reliable platform for business-critical applications, databases, virtual desktop infrastructure (VDI), DevOps, containers, and remote and branch office (ROBO) deployments, among other use cases.

TABLE 1. HITACHI UNIFIED COMPUTE PLATFORM HC MODELS AND SPECIFICATIONS

Product	UCP HC V240	UCP HC V240F	UCP HC V210	UCP HC V210F
Configuration	Hybrid	All-flash	Hybrid	All-flash
Form Factor	Rack optimized server for solutions, 2U 4 node	Rack optimized server for solutions, 2U 4 node	Rack optimized server for solutions, 2U 1 node	Rack optimized server for solutions, 2U 1 node
Processor	1 or 2 Intel Xeon processors E5-2680 v4 (14 core; 3.3GHz; 120W) or 1 or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.9GHz; 30W) or 1 or 2 Intel Xeon processors E5-2620 v4 (8 core; 3GHz; 85W)	2 Intel Xeon processors E5-2680 v4 (14 core; 3.3GHz; 120W) or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.9GHz; 30W) or 2 Intel Xeon processors E5-2650 v3 (10Core; 2.3GHz; 105W)	1 or 2 Intel Xeon processors E5-2699 (22 core; 2.2 GHz; 145W) or 1 or 2 Intel Xeon processors E5-2680 v4 (14 core; 3.3GHz; 120W) or 1 or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.9GHz; 30W) or 1 or 2 Intel Xeon processors E5-2620 v4 (8 core; 3GHz; 85W)	1 or 2 Intel Xeon processors E5 -2699 (22 core; 2.2 GHz; 145W) or 2 Intel Xeon processors E5-2680 v4 (14 core; 3.3GHz; 120W) or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.9GHz; 30W) or 2 Intel Xeon processors E5-2650 v3 (10Core; 2.3GHz; 105W)
Raw Storage (per node)	3.6 - 6.0TB	4 - 19TB	6 - 60TB	4 - 38TB
Estimated Usable Capacity	Up to 3TB	7 - 50TB (RAID-6 with dedupe and compression)	3 - 30TB	7 - 100TB (RAID-6 with dedupe and compression)
Memory	32 - 512GB (32 - 256GB per processor)	128 - 512GB	32 - 384GB per processor, or up to 1.5TB per node	32 - 384GB per processor, or up to 1.5TB per node
Cache	400 or 800GB solid state disk (SSD)	400 or 800GB SSD	Two 800GB or three 400GB SSD	Two 400GB or two 800GB SSD
Network	2 x 10 gigabit Ethernet (GigE) SFP+ or 2-4 10 GigE RJ45 ports	2 x 10 GigE SFP+ or 2-4 10 GigE RJ45 ports	2 x 10 GigE SFP+ or 2-4 10 GigE RJ45 ports	2 x 10 GigE SFP+ or 2-4 10 GigE RJ45 ports
Management Network	One 10 or 100Mb/s BMC port for remote (out-of-band) management per node	One 10 or 100Mb/s BMC port for remote (out-of-band) management per node	One 10 or 100Mb/s BMC port for remote (out-of-band) management per node	One 10 or 100Mb/s BMC port for remote (out-of-band) management per node
Network Switch Support	Customer-supplied switch, such as Cisco Nexus or any other switch that meets VMware vSAN requirements	Customer-supplied switch, such as Cisco Nexus or any other switch that meets vSAN requirements	Customer-supplied switch, such as Cisco Nexus or any other switch that meets vSAN requirements	Customer-supplied switch, such as Cisco Nexus or any other switch that meets vSAN requirements
Maximum Node per Cluster	64	64	64	64
Minimum Initial Order	2 node	2 node	1 node. 2 nodes are needed to form a cluster.	1 node. 2 nodes are needed to form a cluster.
Node Increment	1 node	1 node	1 node	1 node
Software	VMware vSphere 6.5, Virtual SAN 6.5			
	■ Included: Hitachi Compute Advisor (HCA), Hitachi Data Ingestor VM (Trial) ■ Optional: Hitachi Data Ingestor (HDI), Hitachi Content Platform (HCP), Hitachi Unified Compute Platform Advisor, Hitachi Data Instance Director, VMware Management Packs (separately available)			

centers with rapid recoverability to minimize the impact of site failure with five-minute RPO with VMware vSphere host-based replication. Hitachi's reliable one-stop support for the entire appliance provides a zero worry experience for customers.

The UCP HC appliance is sized to run approximately 120 average-sized, general-purpose, data center VMs or 250 virtual desktops with no restrictions on application type. It can be purchased with **Hitachi Data Ingestor (HDI) and Hitachi Content Platform (HCP).** HDI and HCP create an integrated offering that provides distributed consumers of IT, such as ROBO or cloud storage users, with a seamlessly scalable, backup-free storage solution. Deployed as a minimal-footprint or virtual appliance, HDI sends data from the UCP HC appliances at the edge to HCP solution at core infrastructure, employing advanced storage and data management capabilities.

Summary

Hitachi Unified Compute Platform HC family expands the UCP family of converged solutions with a hyperconverged appliance, designed for rapid deployment and easy scalability, while lowering capital and operational expenses. Hitachi hyperconverged solutions deliver a reliable platform for enterprise and midmarket environments.

Hitachi Data Systems

Corporate Headquarters
2845 Lafayette Street
Santa Clara, CA 95050-2639 USA
www.HDS.com | community.HDS.com

Regional Contact Information
Americas: +1 866 374 5822 or info@hds.com
Europe, Middle East and Africa: +44 (0) 1753 618000 or info.emea@hds.com
Asia Pacific: +852 3189 7900 or hds.marketing.apac@hds.com

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